ATENT COOPERATION TREAT YREC'D 21 SEP 2004

PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Appli	cant's c	r age	nt's file reference	FOR FURTHER AC	TION	See Notification	n of Transmittal of Internation	nal
PDO	20059	9		I ON FUNTHER AC		Preliminary Exe	amination Report (Form PC	T/IPEA/416)
Interr	national	appli	cation No.	International filing date (day/montl	n/year)	Priority date (day/month/y	ear)
• •				16.06.2003			28.06.2002	
Interr	national	Pate	nt Classification (IPC) or bo	oth national classification a	nd IPC		<u> </u>	
G11	B7/12	5						
Appli	icant							
THO	OMSO	N LI	CENSING S.A. et al.					
1.	1. This international preliminary examination report has been prepared by this International Preliminary Examining						amining	
, ,	Authority and is transmitted to the applicant according to Article 36.							
	·							
2.	. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	\boxtimes	This	report is also accompa	nied by ANNEXES, i.e.:	sheets o <i>l</i> or sheet	f the descriptions of the containing re	on, claims and/or drawing ectifications made before	gs which have this Authority
		(see	Rule 70.16 and Section	n 607 of the Administrati	ive Instr	uctions under	the PCT).	,
	Thes	e anı	nexes consist of a total of	of 2 sheets.				
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3.	This	repoi	t contains indications re	elating to the following it	ems:			
	i	\boxtimes	Basis of the opinion					
	II		Priority					
	111				ovelty, ir	nventive step a	and industrial applicability	У
	IV		Lack of unity of invent		· · · · · ·	al karaman salbas *	arantha atam an tinaka sa ta 1	l emplicability
1	V	\boxtimes	Reasoned statement of citations and explanate	under Rule 66.2(a)(ii) wi tions supporting such sta	ıın regar atement	a to noveity, ir	nventive step or industrial	і арріісавінту;
	VI		Certain documents cit					
	VII		Certain defects in the	international application	1			
	VIII		Certain observations	on the international appl	lication			
1								
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Date	Date of submission of the demand			Date of	completion of t	his report		
22.12.2003					20.09	.2004		
Name and mailing address of the international					Authori	zed Officer		
preliminary examining authority:								September Pelanton. El
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06342

I.	Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages							
	1-16		as originally filed					
	Clai	ms, Numbers						
	1-5		received on 03.05.2004 with letter of 03.05.2004					
	Drav	wings, Sheets						
	1/6-6	6/6	as originally filed					
2. With regard to the language , all the elements marked above were available or furnished to this Autl language in which the international application was filed, unless otherwise indicated under this item.								
These elements were available or furnished to this Authority in the following language: , which								
☐ the language of a translation furnished for the purposes of the international search (under Rule 2								
		the language of publi	ication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).					
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inter	rnational application in written form.					
		filed together with the	e international application in computer readable form.					
		furnished subsequen	ntly to this Authority in written form.					
		furnished subsequer	ently to this Authority in computer readable form.					
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have re	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06342

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
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(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims 1-5

No: Claims

Inventive step (IS) Yes: Claims 1-5

No: Claims

Industrial applicability (IA) Yes: Claims 1-5

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

1. Reference is made to the following documents:

> D1: EP -A- 1 170 840 D2; EP -A- 1 005 121 D3: US-B-6295260

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims 1-5 appear to meet the requirements of Articles 33(2) and 33(3) PCT for the following reasons:

Even a combination of closest prior art D1 with D2 does not lead to a circuit configuration wherein the logic circuit of D2 is adapted to open the switches with simultaneous action as claimed (cf. claim 1 last two lines). This allows for the isolation of the adjusting resistors when the laser diodes are erroneously driven simultaneously. The logic circuit (24) of D2 does only prevent from simultaneous closure of the switches. D3 is remote.

Claims 2-5 meet the requirements of the PCT by virtue of their dependence.

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Patent Claims

- An intrinsically safe pick-up for reproduction or 1. recording devices for different optical recording media having at least two laser diodes (LD1, LD2) and having a monitor diode (PD) which controls the different light power levels of the laser diodes (LD1, LD2), comprising: switching means (SW), which is formed with interlocked switches (S1, S2), comprises a logic circuit in order to generate a reference value which is associated with a laser diode (LD1 or LD2) in order to produce a reference value which is associated with one laser diods (LD1 or LD2) with the monitor diode (PD) and in order to form an intrinsically safe pick-up (EPU), whereby said logic circuit prevents simultaneous closure of the switches (S1, S2) and opens the switches (S1, S2)
- 2. An intrinsically safe pick-up according to claim 1, wherein the switching means (SW) comprises a logic circuit which is formed by two AND gates (U1, U2) each having an inverting input, and in which each inverting input of an AND gate (U1 or U2, respectively) is connected to the input of the other AND gate (U2 or U1, respectively), to which a switching signal (tSW1, tSW2) is applied for one of the switches (S1 or S2) of the switching means (SW), whose control intput is connected to the output of the AND gate (U1 or U2) to whose input the switching signal (tSW1, tSW2) for the switch (S1 or S2) is applied.

with simultaneous actuation.

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- 3. An intrinsically safe pick-up according to claim 1, wherein the switches (S1, S2) of the switching means are controlled via a logic circuit, which interlocks the switches (S1, S2) and forms an intrinsically safe pick-up (EPU), by means of switching signals (tSW1, tSW2) from a modulator assembly (BMOD) which is connected to the laser diodes (LD1 or LD2).
- 4. An intrinsically safe pick-up according to claim 3, wherein a modulator (MOD) is provided in the modulator assembly (BMOD) for each of the laser diodes (LD1 or LD2) and has a control assembly (contr) which switches on the modulator (MOD) when the laser diode (LD1, LD2) to which it is connected is actuated, and wherein the control assembly (contr) generates a switching signal (tSW) for controlling the switches (S1, S2) by means of the logic circuit.
- 5. An intrinsically safe pick-up according to claim 1, wherein the control inputs of the switches (S1, S2) of the switching means (SW) are connected to comparators (K1, K2) which are connected to the laser diodes (LD1 or LD2), via a logic circuit which interlocks the switches (S1, S2) and forms an intrinsically safe pick-up (EPU).